

REMARKS

By this Amendment, claims 1 and 4-6 are amended, claim 3 is canceled, without prejudice to or disclaimer of the subject matter found therein, and claim 11 is added. No new matter is added. Accordingly, claims 1, 2 and 4-11 are pending in this application. Reconsideration of the application is respectfully requested.

I. Allowable Claims

Applicant gratefully acknowledges that the Office Action indicates that claims 3-10 include allowable subject matter. Specifically, the Office action indicates that claims 3-10 would be allowable if rewritten in independent form including all limitations of the base claim and any intervening claims.

Amended claim 1 incorporates all features of allowable claim 3. Thus, claim 3 is allowable.

Claims 2 and 4-10 depend from amended claim 1, and thus are also allowable. Claims 4-6 are amended solely to depend from claim 1, and thus are not narrowed by such amendments.

II. Rejection Under 35 U.S.C. §102(a)

The Office Action rejects claims 1 and 2 under 35 U.S.C. §102(a) over U.S. Patent Application Publication No. 2002/0171777 to Park. Applicants respectfully traverse the rejection and a potential rejection of new claim 11 based on Park.

As discussed above, amended claim 1 is allowable. Claim 2 depends from allowable claim 1, and thus is also allowable. Accordingly, withdrawal of the rejection is respectfully requested.

Park does not disclose, teach or suggest a cooling structure including "a first internal duct horizontally formed by a joint surface between the mirror case and the lower cabinet, an inlet and an outlet of the first internal duct formed in the mirror case, so as to constitute a first

cooling flow path for cooling liquid crystal panels of an optical unit provided in the lower cabinet," as recited in independent claim 11.

Park teaches a cooling structure including a first internal duct formed by an assembly of an upper heat blocking unit 50 and a lower sealing frame 80. See Figs. 4-6. The internal duct is vertically positioned, with respect to a top joining surface of the heat blocking unit 50, in an area located between blocking plates 53 of the upper heat blocking unit 50 and the lower sealing frame 80. See Figs. 5 and 6. As shown in Fig. 6, cold air is vertically introduced into an air inlet from an upper side of the vertical duct into a fan 61, travels through a horizontal flow hole 72a, and heated air is vertically exhausted from a heated air outlet into a sealed inner space. See paragraphs [0057]-[0061].

Although the flow hole 72a is a horizontal duct, the flow hole 72a is fabricated prior to the assembly of the upper heat blocking unit 50 and the lower sealing frame 80 and defined only by the lower sealing frame 80. Therefore, the flow hole 72a cannot reasonably be considered as a duct formed by a joint surface of the upper unit 50 and lower sealing frame 80.

As a result of the vertical heated air exhaust outlet of the vertical duct being positioned near the vertical air suction inlet portion, a cooling effect is reduced because heated air exhausted from the discharge portion may reenter the suction inlet portion. Further, the cooling effect is reduced because the vertical structure of the duct provides limited travel distance in which heated air may cool down before being discharged from the duct.

In the cooling structure of claim 11, the horizontal internal duct may provide a longer first cooling flow pass in which heated air may travel. See at least Figs. 1A-1B. As a result, the air inlet and the air outlet are further spaced apart so that the heated air has a longer time to cool and reentry of the heated exhausted air into the inlet may be reduced. Because of the

horizontal circular path of the heated air, the cooling effect is increased. Park cannot provide such advantages.

For at least the reasons set forth above, Applicant respectfully submit that Park does not teach or suggest the cooling structure of claim 11. Therefore, claim 11 patentable over Park.

III. Conclusion

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1, 2 and 4-11 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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JAO:HNM

Attachment:
Petition for Extension of Time

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